CHEVRON JOB HAZARD ANALYSIS FORM

DATE: JOB NO.: LOCATION: MAINT. SUPERVISOR: PHONE NO.: OPERATOR-Print Name and CAI: CRAFT COMPANY DESCRIPTION OF WORK: JOINT JOB SITE VISIT (JJSV) – Operator/Mechanic Discussion Completed? -> Yes No N/. Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Radiation Sources Identified and Isolated: Location: Electrical Isolation Verification: Electrician lock on lockbox, The Operator is responsible for ensuring all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Isolation Lock Key: If no electrician lock and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other: Fresh Air # Confined Space #	MAINT. SUPERVISOR: OPERATOR-Print Name an MECHANICS- Print Name DESCRIPTION OF WORK JOINT JOB SITE VIS Isolation List: Review list, dead leg) Radiation Sources Identified all personnel are clear of haz Operator test start/stop switch Isolation Lock Key: If no experimental prices of the solution									
OPERATOR-Print Name and CAI: MECHANICS- Print Name and CAI: CRAFT COMPANY DESCRIPTION OF WORK: JOINT JOB SITE VISIT (JJSV) – Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Radiation Sources Identified and Isolated: Location: Electrical Isolation Verification: Electrician lock on lockbox, The Operator is responsible for ensuring all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	DESCRIPTION OF WORK JOINT JOB SITE VIS Isolation List: Review list, dead leg) Radiation Sources Identifical personnel are clear of haz Operator test start/stop swite. Isolation Lock Key: If no each									
MECHANICS- Print Name and CAI: CRAFT COMPANY DESCRIPTION OF WORK: JOINT JOB SITE VISIT (JJSV) – Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Radiation Sources Identified and Isolated: Location: Electrical Isolation Verification: Electrician lock on lockbox, The Operator is responsible for ensuring all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	MECHANICS- Print Nar DESCRIPTION OF WORK JOINT JOB SITE VIS Isolation List: Review list, dead leg) Radiation Sources Identifical personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no e									
DESCRIPTION OF WORK: JOINT JOB SITE VISIT (JJSV) - Operator/Mechanic Discussion Completed? -> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Radiation Sources Identified and Isolated: Location: Electrical Isolation Verification: Electrician lock on lockbox, The Operator is responsible for ensuring all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below:	JOINT JOB SITE VISISOLATION OF WORK JOINT JOB SITE VISISOLATION List: Review list, dead leg) Radiation Sources Identification Verification personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no each of the second list of the se									
JOINT JOB SITE VISIT (JJSV) - Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Completed?> Yes No N/ Radiation Sources Identified and Isolated: Location: Completed?> Location: Completed. Location: Location: Completed. Location: Location: Completed. Location: Location: Location: Location: Location: Completed. Location:	JOINT JOB SITE VISIS Isolation List: Review list, dead leg) Radiation Sources Identification Verification Presented and Personnel are clear of haz Operator test start/stop swites Isolation Lock Key: If no experimental presented in the second secon									
JOINT JOB SITE VISIT (JJSV) - Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Completed?> Yes No N/ Radiation Sources Identified and Isolated: Location: Completed?> Location: Completed. Location: Location: Completed. Location: Location: Completed. Location: Location: Location: Location: Location: Completed. Location:	JOINT JOB SITE VISIS Isolation List: Review list, dead leg) Radiation Sources Identification Verification Presented and Personnel are clear of haz Operator test start/stop swites Isolation Lock Key: If no experimental presented in the second secon									
JOINT JOB SITE VISIT (JJSV) - Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Completed?> Yes No N/ Radiation Sources Identified and Isolated: Location: Completed?> Location: Completed. Location: Location: Completed. Location: Location: Completed. Location: Location: Location: Location: Location: Completed. Location:	JOINT JOB SITE VISIS Isolation List: Review list, dead leg) Radiation Sources Identification Verification Presented and Personnel are clear of haz Operator test start/stop swites Isolation Lock Key: If no experimental presented in the second secon									
JOINT JOB SITE VISIT (JJSV) - Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Completed?> Yes No N/ Radiation Sources Identified and Isolated: Location: Completed?> Location: Completed. Location: Location: Completed. Location: Location: Completed. Location: Location: Location: Location: Location: Completed. Location:	JOINT JOB SITE VISIS Isolation List: Review list, dead leg) Radiation Sources Identification Verification Presented and Personnel are clear of haz Operator test start/stop swites Isolation Lock Key: If no experimental presented in the second secon									
JOINT JOB SITE VISIT (JJSV) - Operator/Mechanic Discussion Completed?> Yes No N/ Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Completed?> Yes No N/ Radiation Sources Identified and Isolated: Location: Completed?> Location: Completed. Location: Location: Completed. Location: Location: Completed. Location: Location: Location: Location: Location: Completed. Location:	JOINT JOB SITE VISIS Isolation List: Review list, dead leg) Radiation Sources Identification Verification Presented and Personnel are clear of haz Operator test start/stop swites Isolation Lock Key: If no experimental presented in the second secon									
Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Radiation Sources Identified and Isolated: Location:	Isolation List: Review list, dead leg) Radiation Sources Identification Verification Prize all personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no experiment of the start of the st									
Isolation List: Review list, operator points out all isolation and depressurization points (first break, low point, dead leg) Radiation Sources Identified and Isolated: Location:	Isolation List: Review list, dead leg) Radiation Sources Identification Verification Prize all personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no experiment of the start of the st									
Radiation Sources Identified and Isolated: Location: Electrical Isolation Verification: Electrician lock on lockbox, The Operator is responsible for ensuring all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	Radiation Sources Identifice Electrical Isolation Verifical personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no e									
Electrical Isolation Verification: Electrician lock on lockbox, The Operator is responsible for ensuring all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	Electrical Isolation Verificall personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no electrical Isolation Lock Isolation Lock Key: If no electrical Isolation Isola									
all personnel are clear of hazards which might result from the equipment being energized/de-energized. Operator test start/stop switch. Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	all personnel are clear of haz Operator test start/stop switce Isolation Lock Key: If no e									
Isolation Lock Key: If no electrician, first craft representative witnesses key deposited in lockbox. Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900. Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	Isolation Lock Key: If no e									
Additional Work Permits reviewed and signed—All permit numbers must be listed below: Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:										
Ignition Source # General Work # Switch Card # High Heat # Excavation # Other:	Locks and Tags Installed: Confirm that all locks and tags are installed per RI-9900.									
High Heat # Excavation # Other:	Additional Work Permits reviewed and signed—All permit numbers must be listed below:									
	Ignition Source # General Work # Switch Card #									
Fresh Air # Confined Space #	High Heat #									
#Product Name: Gas Test Required: Yes No Personal Protective Equipment reviewed — check those that apply: Respirator Hearing Protection Congress Respirator Hearing Protection Respirator Res	*Product Name: Gas Test Required: Yes No									
	Safety Equipment identified: Eyewash/Safety Shower, Fire Equipment.									
	Nearby Jobs That Pose Additional Hazards reviewed.									
Hazardous Non-routine Maintenance: (i.e., in-plant hot work, hot taps, leak seals, live relief, Scott Air). Discuss what could go wrong. Consider alternative solutions. Consider raising the approval level. Confirm that it is safe to proceed.										
*JOB HAZARD ANALYSIS (JHA) – PIPEFITTER BOILERMAKER AND ALL OTHER CRAFTS: Complete discussion topics below. Review JJSV items above.										
General Questions Yes No N/A General Questions Yes No N/A	1									
Evacuation assembly area known?										
Emergency action plan reviewed?										
Fall Protection required										
MSDS's Reviewed with crew?	MSDS's Reviewed with crev									
Barricade tape/fence/shield?	Barricade tape/fence/shield?									
Safety behaviors discussed										
Basic PPE: Head/Eye/FR Cathodic Protection Systems – See RI-										
cioting/gioves/tootwear 9900 –Appendix K	clothing/gloves/footwear									
	Proper tools and equip./use/condition									
Flammables properly stored Permissible Exposure Limits										
	*Slipping/tripping hazards/Housekeeping									
	Pinch points/line of fire HSE needed									
Emergency Notification Method: Air horn Radio Telephone: # Hand Signals COMMENTS from above JJSV and JHA reviews:										

*REVISED: 4/11 (Replaces 12/10) Certified as current and accurate: 4/11

9900-B-1

Page 2 of 2 APPENDIX B

CHEVRON JOB HAZARD ANALYSIS FORM

NOTE:	Thic form is	c brought to the	work cite by	the firet	representative of each craft
NOIL.	1 1115 101111 13	s brought to the	WOLK SILE UY	the mist	representative of each craft.

MACHINIST SPECIFIC ISSUES	Yes	No	N/A		
Circuit breakers/valves verified chained and locked?					
Bleeder valves open and cleared (verified)?					
Steam turbine OST valve tripped, if applicable?					
Comp. worm gear disengaged before start-up and cylinder bleeders closed?					
CRANE & RIGGING SPECIFIC ISSUES TO REVIEW	Yes	No	N/A		
Critical lift plan					
Crew knows hand signals?					
Weight of piece confirmed?					
Radius confirmed?					
Overhead obstructions?					
Ground level obstructions?					
Ground in stable condition?					
Tail swing clearance?					
Crane barricade?					
Lift area barricaded?					
Has rigging been inspected?					
Is man basket to be used?					
ELECTRICAL SPECIFIC ISSUES	Yes	No	N/A		
Is the isolation point for the job properly disconnected, locked, and tagged?					
Are foreign voltage sources identified and disconnected if necessary?		 	- 		
	<u> </u>				
If a switch card is involved, is the crew familiar with R-4050 and RI-389?	<u> </u>	<u> </u>	 -		
Has the isolation points on the switch card been reviewed with the crew prior to work?					
Is grounding required?					
Limited approach boundary established (10 feet)?					
INSTRUMENT SPECIFIC ISSUES	Yes	No	N/A		
Has temperature and pressure sources been identified and bled off?					
Is the equipment isolated, control loops in manual and properly locked and tagged?					
Are all process materials contained in process lines (i.e., air supplies, impulse tubing,					
sample lines, etc.) drained, neutralized, capped off, and tagged? GMG - SPECIFIC ISSUES	Yes	No	N/A		
Are uneven surfaces identified and mitigated?	l es	INU I	IN/A		
Are vehicle entry permits required?	 	+	\vdash		
Are there conflicting jobs in the area? Yes No If yes, are they identified?	 	+	\vdash		
Is barricade tape / tags required for overhead work?	 	+	 		
Is fall protection required? If so, are workers using proper fall protection for the job?	\vdash	+			
Are scaffolding planks being used to stand on while erecting staging?	\vdash				
Critical Process Equipment and Alarm Transmitters identified? If tools or equipment drop					
will it take out a critical piece of equipment? Netting Required?					
OTHER SPECIFIC ISSUES ADDITIONAL SAFETY CONCERNS AN	D CORREC	TIVE ACTIONS	S TAKEN		
JHA SHIFT RENEWAL: *The following must be dated, initialed and checked daily:					
_	anges 🗌	Discussed with Ope	erations 🗌		
Date: Mechanic Initial: Same Crew Same Job No Changes Discussed with Operations					
Date: Mechanic Initial: Same Crew Same Job No Ch.	anges 🗌	Discussed with Ope	erations 🗌		
	anges 🗌	Discussed with Ope	erations		
Date: Mechanic Initial: Same Crew Same Job No Changes Discussed with Ope					

*REVISED: 4/11 (Replaces 12/10) Certified as current and accurate: 4/11

9900-B-2